



4W Ku-Band Block Up Converter

KEY FEATURES

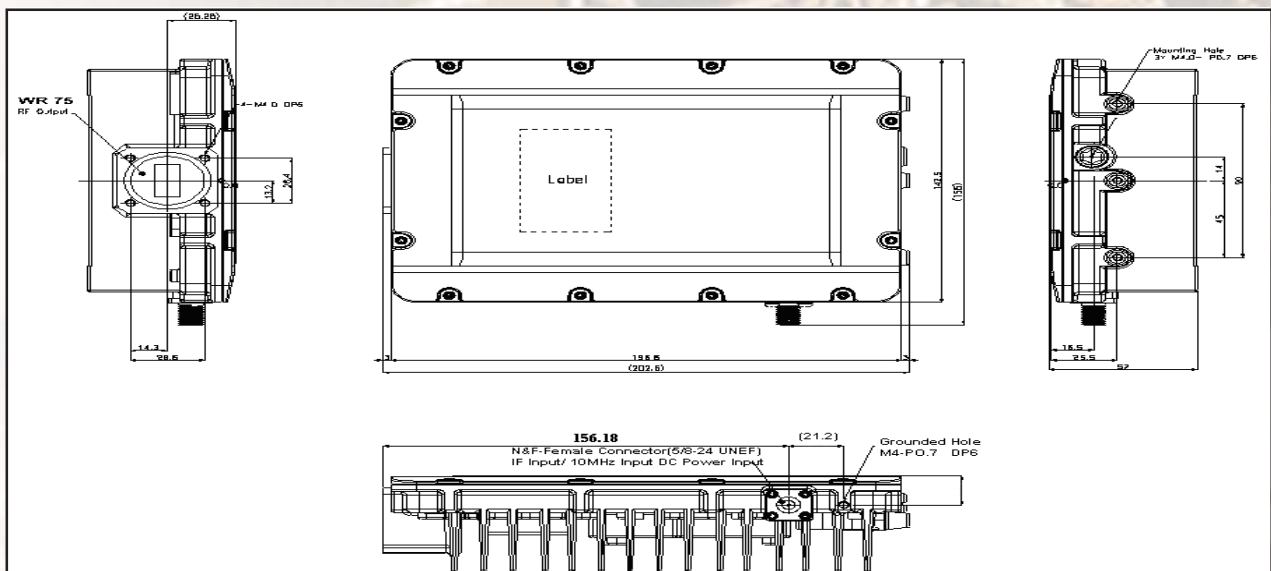
- ◆ Small package size and weight
- ◆ Feed horn mounting
- ◆ Powered through IF cable
- ◆ Low power consumption (< 38 W)
- ◆ High power efficiency (4W min @P1dB over temperature)
- ◆ Side connector
- ◆ RoHS compliant
- ◆ Two year warranty

ABS4KU / ABS4KUF



This small and light weight 4W L-to Ku-Band Block Up Converter is designed to be mounted on the feed horn. High power efficiency resulting in low current (<2 amps) consumption allows user to pass DC supply voltage via IF cable. The unit is ideal for network and point to point, data distribution, portable and emergency applications.

Mechanical Drawing





4W Ku-Band Block Up Converter

TECHNICAL SPECIFICATIONS

RF frequency	14.00 to 14.50 GHz
Local oscillator	13.05 GHz
IF frequency	950 to 1,450 MHz
Output power @ P1dB min over temperature	4W (+36 dBm min.)
IF connector	N-type or F-type
Power supply	+15 VDC~+24 VDC via IF cable 38 W max
Output interface	WR-75 Grooved
Linear gain	60 dB nominal
Gain variation over 54 MHz over 500 MHz	1.0 dB p_p 2.0 dB p_p 2.0 dB p_p @ fixed frequency
Over operating temperature	
Requirement for external reference	via IF cable
frequency input power	10 MHz (sine-wave) -5 to +5 dBm @ Input port
Phase noise	-53 dBc/Hz max. @ 10 Hz -63 dBc/Hz max. @ 100 Hz -73 dBc/Hz max. @ 1 kHz -83 dBc/Hz max. @ 10 kHz -93 dBc/Hz max. @ 100 kHz -110 dBc/Hz max @ 1 MHz
Noise figure	20 dB max
Input V.S.W.R.	2 : 1 max
Output V.S.W.R.	2 : 1 max.
Mute	Shut off the BUC in case of L.O. unlocked
Input interface ABS4KU ABS4KUF	50 Ohm (N-type IF In) 75 Ohm (F-type IF In)
Temperature range (ambient) operating storage	-40 deg C to +55 deg C -40 deg C to +75 deg C
Dimensions & housing	200 (L) x 142.5 (W) x 56.5 (H) mm 8" (L) x 5.7" (W) x 2.26" (H)
Weight	1.6 kg (3.7 lbs) max